



[4910-13-P]

**DEPARTMENT OF TRANSPORTATION**

**Federal Aviation Administration**

**14 CFR Part 39**

**[Docket No. FAA-2015-3139; Directorate Identifier 2012-NM-139-AD; Amendment 39-18224; AD 2015-15-14]**

**RIN 2120-AA64**

**Airworthiness Directives; BAE Systems (Operations) Limited Airplanes**

**AGENCY:** Federal Aviation Administration (FAA), Department of Transportation (DOT).

**ACTION:** Final rule; request for comments.

**SUMMARY:** We are adopting a new airworthiness directive (AD) for all BAE Systems (Operations) Limited Model ATP airplanes. This AD requires a one-time inspection for solder deposited on the frangible plug of certain engine and auxiliary power unit (APU) fire extinguishers. This AD was prompted by reports of a fire extinguisher that failed to discharge due to solder deposited on the frangible plug of the fire extinguisher. We are issuing this AD to detect and correct solder deposited on the frangible plug of the fire extinguisher, which could result in failure of the fire extinguisher to discharge, and consequent inability to put out a fire in an engine or in the APU.

**DATES:** This AD becomes effective [INSERT DATE 15 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

The Director of the Federal Register approved the incorporation by reference of certain publications listed in this AD as of [INSERT DATE 15 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

We must receive comments on this AD by [INSERT DATE 45 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

**ADDRESSES:** You may send comments, using the procedures found in 14 CFR 11.43 and 11.45, by any of the following methods:

- Federal eRulemaking Portal: Go to <http://www.regulations.gov>. Follow the instructions for submitting comments.
- Fax: 202-493-2251.
- Mail: U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE., Washington, DC 20590.
- Hand Delivery: U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE., Washington, DC, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

For BAE Systems (Operations) Limited service information identified in this AD, contact BAE Systems (Operations) Limited, Customer Information Department, Prestwick International Airport, Ayrshire, KA9 2RW, Scotland, United Kingdom; telephone: +44 1292 675207; fax: +44 1292 675704; email: [RApublications@baesystems.com](mailto:RApublications@baesystems.com); Internet <http://www.baesystems.com/Businesses/RegionalAircraft/index.htm>.

For Kidde Graviner service information identified in this AD, contact Kidde Graviner Limited, Mathisen Way, Colnbrook, Slough, Berkshire, SL3 0HB, United Kingdom; telephone: +44 (0)1753 683245, fax: +44 (0)1753 685040.

You may view this referenced service information at the FAA, Transport Airplane Directorate, 1601 Lind Avenue SW., Renton, WA. For information on the availability of this material at the FAA, call 425-227-1221. It is also available on the Internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2015-3139.

### **Examining the AD Docket**

You may examine the AD docket on the Internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2015-3139; or in person at the Docket Operations office between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this AD, the regulatory evaluation, any comments received, and other information. The street address for the Docket Operations office (telephone: 800-647-5527) is in the ADDRESSES section. Comments will be available in the AD docket shortly after receipt.

**FOR FURTHER INFORMATION CONTACT:** Todd Thompson, Aerospace Engineer, International Branch, ANM-116, Transport Airplane Directorate, FAA, 1601 Lind Avenue SW., Renton, WA 98057-3356; telephone: 425-227-1175; fax: 425-227-1149.

### **SUPPLEMENTARY INFORMATION:**

#### **Discussion**

The European Aviation Safety Agency (EASA), which is the Technical Agent for the Member States of the European Union, has issued EASA Airworthiness Directive

2012-0127R1, dated September 10, 2012 (referred to after this as the Mandatory Continuing Airworthiness Information, or “the MCAI”), to correct an unsafe condition for all BAE Systems (Operations) Limited Model ATP airplanes. The MCAI states:

A fire handle on a BAe 146 aeroplane was operated on the ground as a precautionary measure after the throttle cable on the affected engine failed, due to corrosion. The extinguisher failed to discharge.

Investigation results revealed that excess solder, which had been deposited during overhaul on the frangible plug of the extinguisher, prevented the release of the extinguishant. Prompted by this report, Kidde Graviner, the fire extinguisher manufacturer, identified four further extinguishers of similar design that had the same issue. The ATP aeroplane extinguisher is one of those of a similar design.

This condition, if not detected and corrected, could result in the failure of a fire bottle to discharge, which reduces the ability of the fire protection system to extinguish fires in the engine or Auxiliary Power Unit (APU) fire zones, possibly resulting in damage to the aeroplane and injury to the occupants.

For the reasons described above, EASA issued AD 2012-0127 [dated July 10, 2012, <http://ad.easa.europa.eu/ad/2012-0127R1>] to require a one-time inspection of the affected Part Number (P/N) 57183 engine and APU fire extinguishers. In addition, this [EASA] AD prohibited installation of a fire extinguisher, unless it has passed the inspection as required by AD 2012-0127.

Revision 1 of this [EASA] AD is issued to clarify that new extinguishers P/N 57183 may be fitted with no additional inspection required by this [EASA] AD.

You may examine the MCAI on the Internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2015-3139.

## **Related Service Information under 1 CFR part 51**

BAE Systems (Operations) Limited and Kidde Graviner have issued the following service information.

- BAE Systems (Operations) Limited Service Bulletin ATP-26-016, dated October 4, 2011. The service information describes procedures for an inspection for solder deposited on the frangible plug of certain engine and APU fire extinguishers.
- Kidde Graviner Service Bulletin 26-080, Revision 1, dated July 27, 2011. The service information describes procedures for an inspection for solder deposited on the frangible plug of certain engine and APU fire extinguishers.

This service information is reasonably available because the interested parties have access to it through their normal course of business or by the means identified in the ADDRESSES section of this AD.

## **FAA's Determination and Requirements of this AD**

This product has been approved by the aviation authority of another country, and is approved for operation in the United States. Pursuant to our bilateral agreement with the State of Design Authority, we have been notified of the unsafe condition described in the MCAI and service information referenced above. We are issuing this AD because we evaluated all pertinent information and determined the unsafe condition exists and is likely to exist or develop on other products of the same type design.

## **FAA's Determination of the Effective Date**

Since there are currently no domestic operators of this product, notice and opportunity for public comment before issuing this AD are unnecessary.

## **Comments Invited**

This AD is a final rule that involves requirements affecting flight safety, and we did not precede it by notice and opportunity for public comment. We invite you to send any written relevant data, views, or arguments about this AD. Send your comments to an address listed under the ADDRESSES section. Include “Docket No. FAA-2015-3139; Directorate Identifier 2012-NM-139-AD” at the beginning of your comments. We specifically invite comments on the overall regulatory, economic, environmental, and energy aspects of this AD. We will consider all comments received by the closing date and may amend this AD based on those comments.

We will post all comments we receive, without change, to <http://www.regulations.gov>, including any personal information you provide. We will also post a report summarizing each substantive verbal contact we receive about this AD.

### **Costs of Compliance**

Currently, there are no affected airplanes on the U.S. Register. However, if an affected airplane is imported and placed on the U.S. Register in the future, the required actions will take about 1 work-hour, at an average labor rate of \$85 per work-hour. Based on these figures, we estimate the cost of this AD to be \$85 per airplane.

In addition, we estimate that any necessary follow-on actions will take about 1 work-hour and require parts costing \$7,042, for a cost of \$7,127 per product.

### **Authority for this Rulemaking**

Title 49 of the United States Code specifies the FAA’s authority to issue rules on aviation safety. Subtitle I, section 106, describes the authority of the FAA Administrator. “Subtitle VII: Aviation Programs,” describes in more detail the scope of the Agency’s authority.

We are issuing this rulemaking under the authority described in “Subtitle VII, Part A, Subpart III, Section 44701: General requirements.” Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

### **Regulatory Findings**

We determined that this AD will not have federalism implications under Executive Order 13132. This AD will not have a substantial direct effect on the States, on the relationship between the national government and the States, or on the distribution of power and responsibilities among the various levels of government.

For the reasons discussed above, I certify that this AD:

1. Is not a “significant regulatory action” under Executive Order 12866;
2. Is not a “significant rule” under the DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979);
3. Will not affect intrastate aviation in Alaska; and
4. Will not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

### **List of Subjects in 14 CFR Part 39**

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

### **Adoption of the Amendment**

Accordingly, under the authority delegated to me by the Administrator, the FAA amends 14 CFR part 39 as follows:

**PART 39 - AIRWORTHINESS DIRECTIVES**

1. The authority citation for part 39 continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701.

**§ 39.13 [Amended]**

2. The FAA amends § 39.13 by adding the following new airworthiness directive (AD):

**2015-15-14 BAE Systems (Operations) Limited:** Amendment 39-18224. Docket No. FAA-2015-3139; Directorate Identifier 2012-NM-139-AD.

**(a) Effective Date**

This AD becomes effective [INSERT DATE 15 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

**(b) Affected ADs**

None.

**(c) Applicability**

This AD applies to all BAE Systems (Operations) Limited Model ATP airplanes, certificated in any category, all manufacturer serial numbers.

**(d) Subject**

Air Transport Association (ATA) of America Code 26, Fire Protection.

**(e) Reason**

This AD was prompted by reports of a fire extinguisher that failed to discharge due to solder deposited on the frangible plug of the fire extinguisher. We are issuing this



AD to detect and correct solder deposited on the frangible plug of the fire extinguisher, which could result in failure of the fire extinguisher to discharge, and consequent inability to put out a fire in an engine or in the APU.

**(f) Compliance**

Comply with this AD within the compliance times specified, unless already done.

**(g) Inspection of Fire Extinguishers**

(1) For airplanes equipped with Kidde Graviner fire extinguishers having part number (P/N) 57183 (all dash numbers): Within 12 months after the effective date of this AD, inspect each affected fire extinguisher for solder deposited on the frangible plug of the fire extinguisher, in accordance with the Accomplishment Instructions of BAE Systems (Operations) Limited Service Bulletin ATP-26-016, dated October 4, 2011, and Kidde Graviner Service Bulletin 26-080, Revision 1, dated July 27, 2011. If any solder deposit is detected, replace the fire extinguisher with a serviceable fire extinguisher before further flight, in accordance with the Accomplishment Instructions of BAE Systems (Operations) Limited Service Bulletin ATP-26-016, dated October 4, 2011.

(2) Fire extinguishers that meet any condition identified in paragraph (g)(2)(i), (g)(2)(ii), or (g)(2)(iii) of this AD are compliant with the requirements of paragraph (g)(1) of this AD.

(i) Fire extinguishers that have been overhauled by Kidde Graviner or Hugen.

(ii) Fire extinguishers that have been overhauled as specified in Kidde Graviner Service Information Letter (SIL) 01-10, dated July 29, 2010.

(iii) Fire extinguishers that have been overhauled as specified in Kidde Graviner Component Maintenance Manual with Illustrated Parts List 26-21-52, Automatic

Extinguishers with Steel Containers Part Numbers 57133, 57135, 57145, and 57183 Series, Revision 17, dated June 13, 2012.

**(h) Definition of “Overhaul”**

For the purpose of this AD, an overhaul is considered to include replacement of the operating head. Replacement of the pressure relief plug assembly only is not considered an overhaul.

**(i) Parts Installation Limitations**

As of the effective date of this AD, do not install a Kidde Gravinier fire extinguisher having P/N 57183 (all dash numbers) on any airplane, unless the fire extinguisher meets any condition specified in paragraph (i)(1), (i)(2), (i)(3), (i)(4), or (i)(5) of this AD.

(1) The fire extinguisher is new.

(2) The fire extinguisher has passed the inspection as specified in the instructions of Kidde Gravinier Service Bulletin 26-080, Revision 1, dated July 27, 2011.

(3) The fire extinguisher has been overhauled by Kidde Gravinier or Hugen.

(4) The fire extinguisher has been overhauled as specified in the instructions of Kidde Gravinier SIL 01-10, dated July 29, 2010.

(5) The fire extinguisher has been overhauled in accordance with Kidde Gravinier Component Maintenance Manual with Illustrated Parts List 26-21-52, Automatic Extinguishers with Steel Containers Part Numbers 57133, 57135, 57145, and 57183 Series, Revision 17, dated June 13, 2012.

**(j) Credit for Previous Actions**

This paragraph provides credit for the actions specified in paragraphs (g)(2)(iii)

and (i)(5) of this AD, if those actions were performed before the effective date of this AD in accordance with the service information identified in paragraph (j)(1), (j)(2), (j)(3), or (j)(4) of this AD. These documents are not incorporated by reference in this AD.

(1) Kidde Gravinier Component Maintenance Manual with Illustrated Parts List 26-21-52, Automatic Extinguishers with Steel Containers Part Numbers 57133, 57135, 57145, and 57183 Series, Revision 13, dated August 9, 2010.

(2) Kidde Gravinier Component Maintenance Manual with Illustrated Parts List 26-21-52, Automatic Extinguishers with Steel Containers Part Numbers 57133, 57135, 57145, and 57183 Series, Revision 14, dated August 8, 2011.

(3) Kidde Gravinier Component Maintenance Manual with Illustrated Parts List 26-21-52, Automatic Extinguishers with Steel Containers Part Numbers 57133, 57135, 57145, and 57183 Series, Revision 15, dated January 16, 2012.

(4) Kidde Gravinier Component Maintenance Manual with Illustrated Parts List 26-21-52, Automatic Extinguishers with Steel Containers Part Numbers 57133, 57135, 57145, and 57183 Series, Revision 16, dated May 21, 2012.

**(k) Other FAA AD Provisions**

The following provisions also apply to this AD:

**(1) Alternative Methods of Compliance (AMOCs):** The Manager, International Branch, ANM-116, Transport Airplane Directorate, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or local Flight Standards District Office, as appropriate. If sending information directly to the International Branch, send it to ATTN: Todd Thompson, Aerospace Engineer,

International Branch, ANM-116, Transport Airplane Directorate, FAA, 1601 Lind Avenue SW., Renton, WA 98057-3356; telephone 425-227-1175; fax 425-227-1149. Information may be emailed to: 9-ANM-116-AMOC-REQUESTS@faa.gov. Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/certificate holding district office. The AMOC approval letter must specifically reference this AD.

**(2) Contacting the Manufacturer:** For any requirement in this AD to obtain corrective actions from a manufacturer, the action must be accomplished using a method approved by the Manager, International Branch, ANM-116, Transport Airplane Directorate, FAA; or the European Aviation Safety Agency (EASA); or BAE Systems (Operations) Limited's EASA Design Organization Approval (DOA). If approved by the DOA, the approval must include the DOA-authorized signature.

**(l) Related Information**

(1) Refer to Mandatory Continuing Airworthiness Information (MCAI) EASA Airworthiness Directive 2012-0127R1, dated September 10, 2012, for related information. You may examine the MCAI on the Internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2015-3139.

(2) Service information identified in this AD that is not incorporated by reference is available at the addresses specified in paragraphs (m)(4), (m)(5), and (m)(6) of this AD.

**(m) Material Incorporated by Reference**

(1) The Director of the Federal Register approved the incorporation by reference (IBR) of the service information listed in this paragraph under 5 U.S.C. 552(a) and 1 CFR part 51.

(2) You must use this service information as applicable to do the actions required by this AD, unless this AD specifies otherwise.

(i) BAE Systems (Operations) Limited Service Bulletin ATP-26-016, dated October 4, 2011.

(ii) Kidde Graviner Service Bulletin 26-080, Revision 1, dated July 27, 2011

(3) For BAE Systems (Operations) Limited service information identified in this AD, contact BAE Systems (Operations) Limited, Customer Information Department, Prestwick International Airport, Ayrshire, KA9 2RW, Scotland, United Kingdom; telephone +44 1292 675207; fax +44 1292 675704; email [RAPublications@baesystems.com](mailto:RAPublications@baesystems.com); Internet <http://www.baesystems.com/Businesses/RegionalAircraft/index.htm>.

(4) For Kidde Graviner service information identified in this AD, contact Kidde Graviner Limited, Mathisen Way, Colnbrook, Slough, Berkshire, SL3 0HB, United Kingdom; Telephone: +44 (0)1753 683245, Fax: +44 (0)1753 685040.

(5) You may view this service information at the FAA, Transport Airplane Directorate, 1601 Lind Avenue SW., Renton, WA. For information on the availability of this material at the FAA, call 425-227-1221.

(6) You may view this service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the

availability of this material at NARA, call 202-741-6030, or go to:

<http://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued in Renton, Washington, on July 23, 2015.

Victor Wicklund,  
Acting Manager,  
Transport Airplane Directorate,  
Aircraft Certification Service.

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